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PTO/SB/01 (10-00)
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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	CIT 2606 CIP
	First Named Inventor	Jeffrey Hubbell
	COMPLETE IF KNOWN	
	Application Number	10 / 024,918
	Filing Date	December 18, 2001
	Group Art Unit	1651
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ENZYMED-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

12/18/2001

as United States Application Number or PCT International

(if applicable).

Application Number

10/024,918

and was amended on (MM/DD/YYYY)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
PCT/US98/06617		04/02/1998	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/042,143	04/03/1997	

[Page 1 of 2]

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CIT 2606 CIP

077043/00001

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number OR ☒ Correspondence address below

Name Patrea L. Pabst; Holland & Knight, LLP

Address Suite 200, One Atlantic Center

Address 1201 West Peachtree Street

City Atlanta

State GA

ZIP 30309-3400

Country USA

Telephone (404) 817-8473

Fax (404) 817-8588

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name Jeffrey
(first and middle (if any))

Family Name Hubbell
or Surname

Inventor's
Signature

Date 27.01.02

Residence: City

Zumikon

State

Switzerland
Country

Citizenship US

Mailing Address Unterdorfstrasse 22

Mailing Address

City Zumikon

State

ZIP CH-8126

Country Switzerland

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name Jason
(first and middle (if any))

Family Name Schense
or Surname

Inventor's
Signature

Date 28.1.02

Residence: City

Zurich

State

Switzerland
Country

Citizenship US

Mailing Address ArosaStrasse 12

Mailing Address

City Zurich

State

ZIP CH-8008

Country Switzerland

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

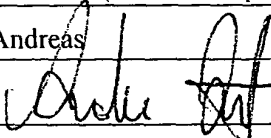
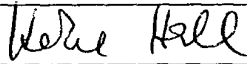
December 18, 2001

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PTO/SB/02A (11-00)
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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
--------------------	---

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Andreas		Zisch	
Inventor's Signature 		Date Feb 26, 02	
Residence: City Zurich	State	Country Switzerland	Citizenship AT
Mailing Address Apfelbaumstrasse 37			
Mailing Address			
City Zurich	State	ZIP 8050	Country Switzerland
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Heike		Hall	
Inventor's Signature 		Date 18.2.2002	
Residence: City Zurich	State	Country Switzerland	Citizenship DE
Mailing Address Froebelstrasse 33			
Mailing Address			
City Zurich	State	ZIP 8032	Country Switzerland
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country

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CIT 2606 CIP

077043/00001

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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	Continuation-in-Part of 09/057,052
Filing Date	December 18, 2001
First Named Inventor	Jeffrey Hubbell
Title	ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING
Group Art Unit	1651
Examiner Name	
Attorney Docket Number	CIT 2606 CIP

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Name	Registration Number
Patrea L. Pabst	31,284
Zhaoyang Li	46,872
Rivka D. Monheit	48,731
Yang Xu	45,243

Place Customer
Number Bar Code
Label here

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

OR

Place Customer
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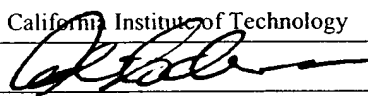
<input checked="" type="checkbox"/> Firm or Individual Name	Patrea L. Pabst; Holland & Knight LLP				
Address	Suite 2000, One Atlantic Center				
Address	1201 West Peachtree Street, N.E.				
City	Atlanta	State	GA	Zip	30309-3400
Country	USA				
Telephone	(404) 817-8473	Fax	(404) 817-8588		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	California Institute of Technology
Signature	
Date	February 28, 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike HallApplication No./Patent No.: 10/024,918 Filed/Issue Date: December 18, 2001Entitled: ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERINGCalifornia Institute of Technology, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

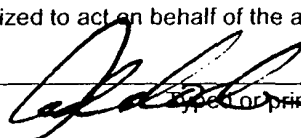
- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

February 28, 2002

Date


 Typed or printed name

Adam Cochran
The Intellectual Property Counsel

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



UNITED STATES
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MAY 22, 2002

PTAS

Chief Information Officer
Washington, DC 20231
www.uspto.gov

HOLLAND & KNIGHT LLP
PATREA L. PABST
SUITE 2000, ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET, N.E.
ATLANTA, GEORGIA 30309-3400



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RECORDATION DATE: 03/19/2002

REEL/FRAME: 012722/0851
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HUBBELL, JEFFREY

DOC DATE: 01/27/2002

ASSIGNOR:

SCHENSE, JASON

DOC DATE: 01/28/2002

ASSIGNOR:

ZISCH, ANDREAS

DOC DATE: 02/26/2002

ASSIGNOR:

HALL, HEIKE

DOC DATE: 02/18/2002

ASSIGNEE:

CALIFORNIA INSTITUTE TECHNOLOGY OF
1200 EAST CALIFORNIA BOULEVARD
PASADENA, CALIFORNIA 91125

SERIAL NUMBER: 10024918
PATENT NUMBER:

FILING DATE: 12/18/2001
ISSUE DATE:

RECEIVED

MAY 28 2002

Docketed for CIT 2606 cIP

By: KS

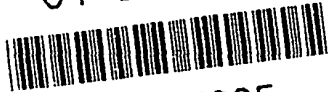
Date: 5-31-02

PATENT DEPT

012722/0851 PAGE 2

DOROTHY RILEY, EXAMINER
ASSIGNMENT DIVISION
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☐ Departmental File☐ Secret File

Conveying Party(ies)

☒ Mark if additional names of conveying parties attached

Name (line 1)

Hubbell, Jeffrey

Execution Date
Month Day Year

01272002

Name (line 2)

Second Party

Name (line 1)

Schense, Jason

Execution Date
Month Day Year

01282002

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

California Institute of Technology

Name (line 2)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Address (line 1)

1200 East California Boulevard

Address (line 2)

Address (line 3)

Pasadena

California

91125

City

State/Country

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone Number

(404) 817-8473

Name Patrea L. Pabst

Address (line 1) Holland & Knight LLP

Address (line 2) Suite 2000, One Atlantic Center

Address (line 3) 1201 West Peachtree Street, N.E.

Address (line 4) Atlanta, Georgia 30309-3400

Pag s

Enter the total number of pages of the attached conveyance document including any attachments.

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Patent Application Number(s)

Patent Number(s)

10024918

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

PCT

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PCT

only if a U.S. Application Number has not been assigned.

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:

Enclosed ☒

Deposit Account ☒

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

50-1868

Authorization to charge additional fees:

Yes

☒

No

☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Patrea L. Pabst

Name of Person Signing

Reg. No.: 31,284

Signature

Date

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U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1) Zisch, Andreas

02262002

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Hall, Heike

02182002

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

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Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

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State/Country

Zip Code

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☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

10024918

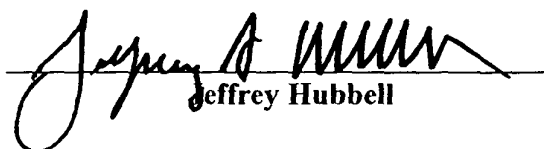
ASSIGNMENT

We, Jeffrey Hubbell of Unterdorfstrasse 22, Zumikon CH-8126, SWITZERLAND, Jason Schense of ArosaStrasse 12, Zürich CH-8008, SWITZERLAND, Andreas Zisch of Apfelbaumstrasse 37, Zürich 8050, SWITZERLAND, and Heike Hall of Froebelstrasse 33, Zürich 8032, SWITZERLAND, in consideration of ten dollars and other valuable consideration paid to us by California Institute of Technology, a corporation of the State of California, having its principal place of business at 1200 East California Boulevard, Pasadena, California 91125, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said California Institute of Technology, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Enzyme-Mediated Modification of Fibrin for Tissue Engineering*" described in U.S. Serial No. 10/024,918 filed in the United States Patent and Trademark Office on December 18, 2001, by Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall, which is a continuation-in-part of U.S. Serial No. 09/057,052 filed April 8, 1998, now U.S. Patent No. 6,331,422, which is a continuation of International Application No. PCT/US98/06617 filed April 2, 1998, which claims priority to U.S. Provisional Application Serial No. 60/042,143 filed in the United States Patent and Trademark Office on April 3, 1997, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 27th day of January, 2002.


Jeffrey Hubbell

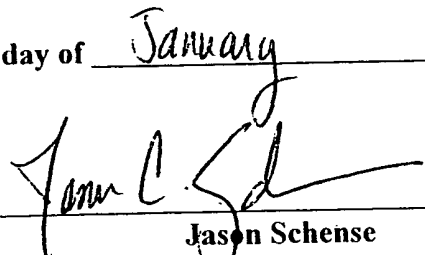
Witnesses:

1. Signed: Babette Guldennpfennig
Printed Name: BABETTE GÜLDENPFENNIG
Address: GUGGERSTR. 7
CH - 8702 ZOLLIKON

2. Signed: Marion Huber
Printed Name: MARION HUBER
Address: THOERIGENSTRASSE 36
CH - 3360 HERZOGENBUCHSEE

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

WITNESS my hand and seal this 28 day of January, 2002.



Jason Schense

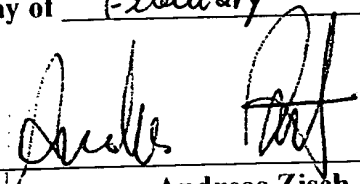
Witnesses:

1. Signed: Beate Gilpflug
Printed Name: BABETTE GÜLDENPFENNIG
Address: GUGGERSTR. 7
CH - 8702 ZOLLIKON

2. Signed: Marion Huber
Printed Name: MARION HUBER
Address: THOERIGENSTRASSE 36
CH - 3360 HERZOGENBUCHSEE

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

WITNESS my hand and seal this 26 day of February, 2002.



Andreas Zisch

Witnesses:

1. Signed: Jennifer Griffiths
Printed Name: Jennifer Griffiths.
Address: 765 Bellemade Place
Alpharetta GA 30004.

2. Signed: Babette Guldorf
Printed Name: Babette Guldorf
Address: Guggersstr. 7
CH- 8702 Zollikon.

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

WITNESS my hand and seal this 14th day of February, 2002.

Heike Hall

Heike Hall

Witnesses:

1. Signed: Sabette Guldenspennig
Printed Name: SABETTE GULDENPFENNIG
Address: GUGGERSTR. 7
CH- 8702 ZOLLIKON

2. Signed: Marion Huber
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